

PAT-NO: JP359150675A

DOCUMENT-IDENTIFIER: **JP 59150675 A**

TITLE: AUTOMATIC **WELDING** DEVICE OF **BRANCH PIPE**

PUBN-DATE: August 28, 1984

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APPL-NO: JP58025361

APPL-DATE: February 16, 1983

INT-CL (IPC): B23K009/225, B23K009/12

US-CL-CURRENT: **219/61.5**

ABSTRACT:

PURPOSE: To make construction simple and to enable exact **welding** by separating a detecting stage for a **weld** line and a **welding** stage, and tracing the groove of the joint detected with a detecting sensor by a **welding** torch.

CONSTITUTION: A titled device consists of a rotating and driving part 9, a **welding** torch 16, a detecting sensor 17 for detecting a groove and a positioning member. Said part 9 is disposed in a device body 8 to be attached

in the open end part of a **branch pipe** 2 to be **welded** to a base **pipe** 1 and has

its rotating center in the same position as the axial center of the **pipe** 2.

The torch 16 and the sensor 17 are attached in the part 9 so as to be positioned symmetrically around the axial center of the **pipe** 2 by means of

sliding members 11a, 11b, 15a, 15b which are slidable in the direction at a

right angle to the axial center of the **pipe** 2 and in the direction parallel

therewith. The joint is detected by the sensor 17 and the torch 16 is

controlled to trace the joint according to said detection.

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